## 

 $1000000 \frac{h(x+1)}{a} - 1$ ,  $ax + b_{000} = x > -1_{00000} \frac{b}{a}_{0000}$ 

$$0000000 y = h(x+1) - ax - b - 1_{00} y = \frac{1}{1+x} - a_{00}$$

 $\begin{smallmatrix} a_n & 0 & 0 \\ 0 & 0 & 0 \end{smallmatrix} \xrightarrow{y^* > 0} 0000 & X > -1 0000000000$ 

$$0 = 0 = 0$$

$$X = \frac{1 - a}{a}$$

$$-1 < x < \frac{1-a}{a}$$
  $y > 0$ 

$$X > \frac{1 - a}{a} \bigcup y^{\flat} < 0 \bigcup$$

$$X = \frac{1 - a}{a}$$

$$\therefore \frac{b}{a} \cdot \frac{-\ln a + a - 2}{a} \qquad t = \frac{-\ln a + a - 2}{a}$$

$$\therefore t = \frac{\ln a + 1}{a^2}$$

$$\therefore (0,e^1)_{\square \square} \, t < 0_{\square} (e^1_{\square} + \infty)_{\square \square} \, t > 0_{\square}$$

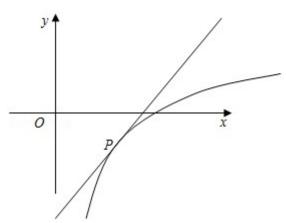
$$\therefore a = e^1 \square t_{mn} = 1 - \epsilon_{\square}$$

### $\,\,\Box\Box\Box\,A_\Box$

$$\begin{array}{l} \lim_{N \to \infty} |hx + (2e^{-a - 1})x + b + 1, \ 0 \Leftrightarrow |hx + 2ex - 1, \ (a + 1)x - (b + 2) \\ \lim_{N \to \infty} |hx + (2e^{-a - 1})x + b + 1, \ 0 \Leftrightarrow |hx + 2ex - 1, \ (a + 1)x - (b + 2) \\ \lim_{N \to \infty} |hx + (2e^{-a - 1})x + b + 1, \ 0 \Leftrightarrow |hx + (2e^{-a - 1})x + b + 1, \ 0 \Leftrightarrow |hx - ex + 2, \ 0 \Leftrightarrow |hx + (2e^{-a - 1})x + b + 1, \ 0 \Leftrightarrow |hx - ex + 2, \ 0 \Leftrightarrow |hx + (2e^{-a - 1})x + b + 1, \ 0 \Leftrightarrow |hx - ex + 2, \ 0 \Leftrightarrow |hx - ex + 2, \ 0 \Leftrightarrow |hx + (2e^{-a - 1})x + b + 1, \ 0 \Leftrightarrow |hx - ex + 2, \ 0 \Leftrightarrow |hx - ex + 2, \ 0 \Leftrightarrow |hx + (2e^{-a - 1})x + b + 1, \ 0 \Leftrightarrow |hx - ex + 2, \ 0 \Leftrightarrow |hx - e^{-a - 1} \Leftrightarrow |hx$$

$$\frac{n}{m_{00000}} 2e_0$$

# $00000 \, ^{2e_{\tiny{\tiny{\tiny{0}}}}}$



$$400000 f(x) = \ln x + a_0 g(x) = ax + b + 1_{00} \forall x > 0_0 f(x), g(x) = \frac{b}{a_{0000}}$$

$$00000000000 \ln x + a - ax - b - 1, 0_0 (0, +\infty) 00000 ax - \ln x + b + 1 - a \cdot 0_0 (0, +\infty) 00000$$

$$\square X \rightarrow +\infty \square h(X) \rightarrow -\infty \square \square \square \square \square \square$$

$$i)_{a>0} = h(x) = 0$$

$$i(x) = 0$$

$$i(x) = h(x) =$$

$$00 h.a- lna- 2 000 \frac{b}{a}..1- \frac{lna}{a}- \frac{2}{a}(a>0)$$

$$G = \frac{1 + \ln a}{a} = \frac{1 + \ln a}{a} = 0$$

$$G_{\mathbf{a}} = 0$$

$$a \in [\frac{1}{e}, +\infty)$$
  $G \cap G \cap G \cap G$ 

 $000001 - e_0$ 

$$f(x) = e^{x} - x + \frac{1}{2}x^{2}(e - x) = \frac{1}{2}x^{2} + ax + b(a \in R, b \in R)$$

$$\lim_{n\to\infty} f(x)...g(x) = h(a+1) = 0$$

$$f(x) = e^{x} - x + \frac{1}{2}x^{2}$$

$$f(X) = e^{x} + X - 1 R_{00000} f(0) = 0$$

$$\therefore_{\square} X < 0_{\square\square} f(X) < 0_{\square}$$

$$\therefore_{\square} X > 0_{\square\square} f(X) > 0_{\square}$$

$${\scriptstyle \square\, X=0} {\scriptstyle \square \square \square \square} \ f(0)=1$$

$$g(x) = \frac{1}{2}x^2 + ax + b$$

$$f(x)...g(x) = e^{x} - x + \frac{1}{2}x^{2}...\frac{1}{2}x^{2} + ax + b$$

$$(a+1) - b.0$$

$$\prod h(x) = e^x - (a+1)$$

$$\textcircled{2} \ \square^{\, (\, a+1) \, > \, 0} \ \square \square \ \mathcal{H}(\, x) \, > \, 0 \ \square \square \ X \, > \, \mathcal{H}(\, a+1) \ \square$$

$$\prod_{a+1} (a+1) - (a+1) \ln(a+1) \dots b$$

$$P(x) = x(1-2\ln x)$$

$$\therefore F(\mathbf{X}) > 0 \mod 0 < \mathbf{X} < \sqrt{e_0}$$

$$F(X) < 0_{\square\square\square} X > \sqrt{e}_{\square}$$

$$0 = \sqrt{e} - 1 = \sqrt{\frac{e}{2}} = \sqrt{(a+1)} = \sqrt{\frac{e}{2}}$$

$$00^{h(a+1)}00000^{\frac{e}{2}}0$$

$$f(x) = e^{x} - x + \frac{1}{2}x^{2}$$

$$100 X \neq X_2 00 f(X) = f(X_2) 0000 f(\frac{X_1 + X_2}{2}) < 0$$

$$0200 \stackrel{X \in R_{0000}}{=} f(x)...\frac{1}{2}x^2 + ax + b$$

$$00000010 f(x) = e^{x} - 1 + x_{0} f'(x) = e^{x} + 1 > 0_{0}$$

$$\therefore f(x)_{000000} f(0) = 0_{0}$$

$$\therefore f(x)_{\square}(-\infty,0)_{\square\square\square\square\square\square}(0,+\infty)_{\square\square\square\square\square\square}$$

$$\int f(\frac{X+X_2}{2}) < 0 \qquad \qquad X < X_2 \qquad X < 0 \qquad X_2 > 0$$

$$h(x) = f(x) - f(-x) = e^{x} - x + \frac{1}{2}x^{2} - (e^{x} + x + \frac{1}{2}x^{2}) = e^{x} - e^{x} - 2x(x < 0)$$

$$h'(x) = e^x + e^{-x} - 2 \prod h''(x) = e^x - e^{-x} (x < 0) < 0$$

$$\therefore H(x) > 0_{\square} \therefore H(x)_{\square \square \square \square \square \square}$$

$$\mathbb{L} \quad \mathcal{H}(0) = 0 \quad \therefore \quad \mathcal{H}(x) < 0 \quad (x \in (-\infty, 0)) \quad$$

$$f(x)...\frac{1}{2}x^{2} + ax + b$$

$$\therefore e^{x} - x..ax + b_{0000}$$

$$\bigcirc \bigcirc a < -1_{\bigcirc \bigcirc} \stackrel{G(x)}{\longrightarrow} R_{\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc} \stackrel{X \to -\infty}{\longrightarrow} \bigcirc \stackrel{G(x) \to -\infty}{\longrightarrow} \bigcirc \bigcirc \bigcirc \bigcirc$$

$$\therefore G(x) {\scriptstyle \square} (In(1+a) {\scriptstyle \square} + \infty) {\scriptstyle \square} {\scriptstyle \square} {\scriptstyle \square} (-\infty {\scriptstyle \square} In(1+a)) {\scriptstyle \square} {\scriptstyle \square} {\scriptstyle \square} {\scriptstyle \square}$$

$$\therefore h(a+1), (1+a)^2 - (1+a)^2 h(1+a)$$

$$\therefore \varphi(t)_{\square}(0,\sqrt{e})_{\square\square\square}(\sqrt{e},+\infty)_{\square\square\square}$$

$$\varphi(t)_{max} = \varphi(\sqrt{e}) = \frac{e}{2}$$

$$g(x) = \frac{1}{2}x^2 + ax + b(a \in R, b \in R)$$

0100 <sup>f(x)</sup> 00000000

$$f(x) = e^{x} - x + \frac{t}{2}x^{2} \int f(x) = e^{x} - 1 + tx$$

$$f_{10} = e - 1 + t = e_{10} t = 1$$

$$f(x) = e^{x} - x + \frac{1}{2}x^{2} \int f(x) = e^{x} - 1 + x \int f'(x) = e^{x} + 1 > 1 > 0$$

$$f(x) = e^{x} - 1 + x_{1} R_{1} R_{1} R_{1} = 0$$

$$\Box h(x) = e^{x} - (a+1)x - b_{\Box}$$

$$\square^{h(x) = e^x - (a+1)} \square$$

$$\square^{\mathcal{Y}=I(X)}\square R_{\square\square\square\square}$$

$$X \rightarrow -\infty \square D h(X) \rightarrow -\infty \square h(X)...0$$

$$2 \quad \exists \ a+1 > 0 \quad \exists \ h(x) > 0 \quad \exists \ X > h(a+1) \quad \exists \quad A = 0 \quad \exists \ A = 0 \quad \exists$$

$$\square^{h(x) < 0} \square \square^{X < h(a+1)} \square$$

$$\Box^{(a+1)-(a+1)\ln(a+1)...}b_{\Box}$$

$$\therefore (a+1) h, (a+1)^2 - (a+1)^2 h (a+1) (a+1>0)$$

$$\therefore F(\mathbf{X}) > 0 \underset{\square}{\square} \underset{\square}{\square} 0 < \mathbf{X} < \sqrt{e}_{\square} F(\mathbf{X}) < 0 \underset{\square}{\square} \underset{X}{\square} \mathbf{X} > \sqrt{e}_{\square}$$

$$X = \sqrt{e_{\square \square}} F(x)_{max} = \frac{e}{2}$$

$$(a+1)b_{00000}$$
  $\frac{e}{2}$   $_{0}$ 

$$\therefore \frac{b(a+1)}{2} \xrightarrow{000000} \frac{e}{4}$$

800000 
$$f(x) = f(x) = f(0)x + \frac{1}{2}x^2$$

 $\int g(x) dx dx$ 

$$\lim_{x \to a} f(x), g(x) = b - 2a = 0$$

OOOOOOIOOOOOO
$$R_{
m D}$$

$$g(x) = (2x+2)(x-a)$$

$$\bigcirc \mathcal{G}(x) \bigcirc (-\infty,a) \bigcirc (a,-1) \bigcirc (-1,+\infty) \bigcirc (a,-1) \bigcirc (a,-1)$$

$$0 g(x) < 0_{0000} - 1 < x < a$$

$$\ \, {}_{\square} \, {}^{(x)} \, {}_{\square} \, {}^{(-\infty,-1)} \, {}_{\square\square\square\square} \, {}^{(-1,\,a)} \, {}_{\square\square\square\square} \, {}^{(a,+\infty)} \, {}_{\square\square\square} \,$$

$$F(x) = (2x+1)\ln x + (x^2 + x)\frac{1}{x} + 2x^2 + 2(1-a)x - a = (2x+1)(\ln x + x + 1-a)$$

$$\square X \rightarrow 0 \\ \square \square h(X) \rightarrow -\infty \\ \square \square X \rightarrow +\infty \\ \square \square h(X) \rightarrow +\infty \\ \square$$

$$\lim_{n\to\infty} X_n \in (0,+\infty) = \lim_{n\to\infty} h(X_n) = 0 = \lim_{n\to\infty} a = X_n + h n X_n + 1 = 0$$

$$0 < x < x_{00} P(x) < 0_{00} P(x)_{0} (0, x_{0})_{000}$$

$$= -\frac{1}{3} x^3 - x^2 - x + b$$

$$F(x)_{nm} = \frac{1}{3} x_0^3 - x_0^2 - x_0 + h.0$$

$$\int_{0}^{1} h \cdot \frac{1}{3} X_{0}^{3} + X_{0}^{2} + X_{0}$$

$$b-2a.\frac{1}{3}x^3+x^2+x-2a=\frac{1}{3}x^3+x^2-x-2\ln x-2$$

$$H(X) = \frac{(X-1)(X^2+3X+2)}{X}$$

$$\prod_{x} H(x) = 0_{x} = 1_{x}$$

$$\Box h(x) \Box (0,1) \Box \Box \Box (1,+\infty) \Box \Box$$

$$\int_{0}^{1} x_{0}^{2} = 1_{0}^{2} a = 1 + x_{0}^{2} + \ln x_{0}^{2} = 2_{0}^{2} b = \frac{1}{3} x_{0}^{3} + x_{0}^{2} + x_{0}^{2} = \frac{7}{3} (b - 2a)_{nm} = -\frac{5}{3}$$

1000000 
$$f(x) = ln(ax + b) - x(a_0 b \in R)_0$$

$$10000 \ y = f(x) \ 00 \ (1_0 \ f_{010}) \ 0000000 \ y = -2x + 1_{00} \ a_0 \ b_{000}$$

020000 *a* > 000 *f(x)*,, 000000 *ab*00000

$$f(x) = \ln(ax + b) - x_{0000} f(x) = \frac{a}{ax + b} - 1_{0000}$$

$$\int_{0}^{\infty} y = f(x) \int_{0}^{\infty} (1 - f_{010}) \int_{0}^{\infty} \frac{d}{a + b} dx$$

00000 
$$y=-2x+1_{000}\ln(a+b)-1=-1_{0}$$

$$\frac{a}{a+b}$$
- 1=- 2

$$a = 1_{\square} b = 2_{\square}$$

$$y = h(x+1) - x$$

$$0 = X > 0 = 0 = 0 = 0 - 1 < X < 0 = 0 = 0 = 0$$

$$00^{y}000000000^{ht(x+1),,x}0$$

$$a > 0$$
  $f(x)$ ,  $0$   $0$ 

$$\square^{X.\, Jt(aX+\, b)}\square\square\square\square$$

$$\Box\Box$$
  $ln(ax+b)$ ,,  $ln(x+1)$ 

$$\Box a = 1 \Box b$$
,  $1 \Box \Box \Box ab$ ,  $1 \Box$ 

o *ab*oooo 10

$$1100000 \ f(x) = e^x + x^2 - x_0 \ g(x) = x^2 + ax + b_0 \ a_0 \ b \in R_0$$

$$0100 a = 100000 F(x) = f(x) - g(x) = 000000$$

$$20000 y = f(x) - g(x) = (1,0) = 00000 x + y - 1 = 0 = a_0 b_{000}$$

0300 
$$f(x)...g(x)$$
00000  $a+b$ 00000

$$000000100 a = 100 F(x) = f(x) - g(x) = e^x + x^2 - x - x^2 - x - b = e^x - 2x - b_0$$

$$\therefore F(x) = e^x - 2$$

$$P(x) = 0_{\text{loop}} x = \ln 2_{\text{loop}}$$

$$\square X < h 2 \square F(x) < 0 \square X > h 2 \square F(x) > 0 \square$$

$$\therefore F(x)_{\square}(-\infty, h2)_{\square\square\square\square\square\square\square}(h2, +\infty)_{\square\square\square\square\square\square}$$

$$2$$
  $Y = f(x) - g(x) = \mathcal{E} - (a+1)x - b$ 

$$\therefore y^t = e^{x} - (a+1)_{\prod}$$

$$K = Y|_{x=1} = e - (a+1) = -1_{000} a = e_0$$

$$\int h(x) = e^{x} - (a+1)x - b$$

$$\square^{h(x) = e^x - (a+1)} \square$$

$$0 = a + 1, \ 0 = 0 = a, \ -1 = 0 = H(x) > 0 = 0 = H(x) = 0 = 0$$

$$\square X \rightarrow -\infty \square \square h(X) \rightarrow -\infty \square \square \square \square \square \square \square$$

$$0 = a > -1_{000} h(x) = e^{x} - (a+1) = 0_{000} x = h(a+1)_{0}$$

$$\bigsqcup_{x < h(a+1)} \mathcal{H}(x) < 0 \\ \bigsqcup_{x > h(a+1)} \mathcal{H}(x) > 0 \\ \bigsqcup_{$$

$$\therefore \mathit{H}(x)_{\square}(-\infty_{\square}\mathit{In}(a+1))_{\square\square\square\square\square\square\square}(\mathit{In}(a+1)_{\square}+\infty)_{\square\square\square\square\square\square}$$

$$\therefore L(x)_{min} = L(L(a+1)) = e^{h(a+1)} - (a+1)L(a+1) - b = a+1 - b - (a+1)L(a+1) \cdot 0$$

$$\therefore a + b, 2a + 1 - (a + 1) \ln(a + 1) = 2(a + 1) - 1 - (a + 1) \ln(a + 1)$$

$$\Box \varphi(x) = 2x - 1 - x \ln x \Box x > 0 \Box$$

$$\therefore \varphi'(x) = 1 - \ln x$$

$$\square X > e_{\square \square} \varphi'(X) < 0_{\square \square \square} \varphi(X)_{\square \square \square \square}$$

$$0 < x < e_{\bigcirc \bigcirc} \varphi'(x) > 0_{\bigcirc \bigcirc} \varphi(x)$$

$$\therefore \varphi(x)_{max} = \varphi_{\square e \square} = 2e - 1 - elne = e - 1_{\square}$$

$$000 a = e - 1_0 b = 0_{00} a + b_{00000} e - 1_0$$

$$00a+b_{00000}e-1_{0}$$

12000 
$$a_0 b \in R_{0000} f(x) = e^x - ax - b\sqrt{x^2 + 1}_0$$

$$0 = 0 = 0 = 0 f(x) = 0 = 0 = 0$$

$$000000100b=0000f(x)=e^{x}-ax_{0}...f(x)=e^{x}-a_{0}$$

$$0 = a_{x} = 0 = f(x) > 0 = 0 = f(x) = 0 = 0$$

$$X = \frac{1}{2} \prod_{n=1}^{\infty} f(\frac{1}{2}) = \sqrt{e} - \frac{a}{2} - \frac{\sqrt{5}}{2} h.0$$

$$a + \sqrt{5}b = 2\sqrt{e_{0000000}}$$

$$f(x) = e^{x} - a - \frac{bx}{\sqrt{x^2 + 1}}$$

$$f(\frac{1}{2}) = \sqrt{e} - a - \frac{\sqrt{5}}{5}b = 0$$

$$\therefore a + \sqrt{5}b = 2\sqrt{e}$$

$$a = \frac{3\sqrt{e}}{4}$$

$$b = \frac{\sqrt{5e}}{4}$$

$$g(x) = e^{x} - \frac{3\sqrt{e}}{4}x - \frac{\sqrt{5e}}{4}\sqrt{x^{2} + 1}..0(x..0)$$

$$g'(x) = e^{x} - \frac{3\sqrt{e}}{4} - \frac{\sqrt{5e}}{4} \times \frac{1}{2\sqrt{x^{2}+1}} \times 2x$$

$$=e^{x} - \frac{\sqrt{5}e}{4} \times \frac{x}{\sqrt{x^{2}+1}} - \frac{3\sqrt{e}}{4}$$

$$= \sqrt{e}(e^{x^{\frac{1}{2}}} - \frac{\sqrt{5}}{4} \times \frac{x}{\sqrt{x^2 + 1}}) - \frac{3\sqrt{e}}{4}$$

$$g''(x) = \sqrt{6} e^{x^{\frac{1}{2}}} - \frac{\sqrt{5}}{4} \left(\frac{x}{\sqrt{x^2 + 1}}\right) = \sqrt{6} e^{x^{\frac{1}{2}}} - \frac{\sqrt{5}}{4} \cdot \frac{1}{(\sqrt{x^2 + 1})^3}$$

$$\therefore g^r(x)_{00000}$$

$$g'(x)...g'(0) = \sqrt{e}(\frac{1}{\sqrt{e}} - \frac{\sqrt{5}}{4}) > 0$$

$$\therefore g'(x) = 0$$

$$0, X < \frac{1}{2} g(x) < 0$$

$$g(x) = [0, \frac{1}{2}] = [0, \frac{1}{2}] = [0, \frac{1}{2}, +\infty]$$

$$g(x)...g(\frac{1}{2}) = 0$$

$$f(x) = \frac{2x+1}{x^2+2}$$

0100 <sup>f(x)</sup> 00000000

$$0$$
100000  $X \in R_0^{-3}$ ,  $af(x) + h$ ,  $3_{00}a - b_{00000}$ 

$$f(x) = \frac{-2(x+2)(x-1)}{(x^2+2)^2}$$

$$f(x) = \frac{1}{2} \int_{0.00}^{0.00} f(-2) = \frac{1}{2} \int_{0.000}^{0.00} f(-2) = 1$$

$$(f(x) + \frac{1}{2})(f(x) - 1) = \frac{-(x+2)^{2}(x-1)^{2}}{2(x^{2}+2)^{2}} (f(x) + \frac{1}{2})(f(x) - 1), 0$$

$$\frac{1}{2}$$
,  $f(x)$ ,  $\frac{1}{2}$ 

$$\begin{cases} -3_{n} - \frac{1}{2}a + h_{n} & 3 \\ -3_{n} & af(x) + h_{n} & 3 \\ -3_{n} & a + h_{n} & 3 \end{cases}$$

$$\begin{cases} a+h..-3 \\ a+h,3 \\ -\frac{1}{2}a+h..-3 \\ -\frac{1}{2}a+h,3. \end{cases}$$

0000000 
$$a$$
-  $b$ 00000 50



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